



12

EUROPEAN PATENT APPLICATION

21 Application number : 92500067.1

51 Int. Cl.⁵ : **A61M 5/32** 

22 Date of filing : 29.05.92

30 Priority : 30.05.91 ES 9101712 U

43 Date of publication of application :
30.12.92 Bulletin 92/53

84 Designated Contracting States :
AT BE CH DE DK FR GB GR IT LI LU MC NL PT
SE

71 Applicant : **SERRANO GONZALEZ, Antonio**
Riu Canyoles 6
E-46900 El Vedat de Torrent (Valencia) (ES)

72 Inventor : **SERRANO GONZALEZ, Antonio**
Riu Canyoles 6
E-46900 El Vedat de Torrent (Valencia) (ES)

74 Representative : **Garcia Cabrerizo, Francisco**
OFICINA GARCIA CABRERIZO S.L. Vitruvio 23
E-28006 Madrid (ES)

54 **Protector for self-retractile hypodermic needles.**

57 A protector for self-retractile hypodermic needles, the purpose of which is to hide and protect the needle used in injections, both before and after its use. Its basic features are a tubular body (1) opened on both ends and cylindrical, at least inside, including an inner ring-shaped projection (3) with minimum width and thickness, which holds the needle-holder (6). The body includes as well an expansion spring (5) placed between the end projection of the needle-holder provided to be held against the inner projection of the tubular body, and the strangled front end of the latter. The spring pushes the needle-holder in, hiding the needle (7), once the syringe has been used for an injection. The tubular body is provided with elongated side windows (4) to simultaneously hold both the tubular body and the syringe during use.

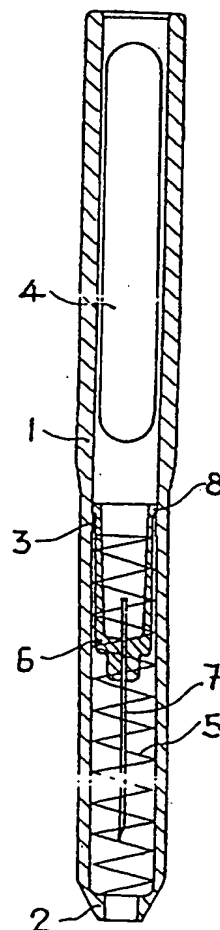


Fig. 1

the end projection of the needle-holder provided to be held against the inner projection of the tubular body, and the strangled front end of the latter. The spring pushes the needle-holder in, hiding the needle, once the syringe has been used for an injection. The tubular body is provided with elongated side windows to simultaneously hold both the tubular body and the syringe during use.

5

10

15

20

25

30

35

40

45

50

55

3

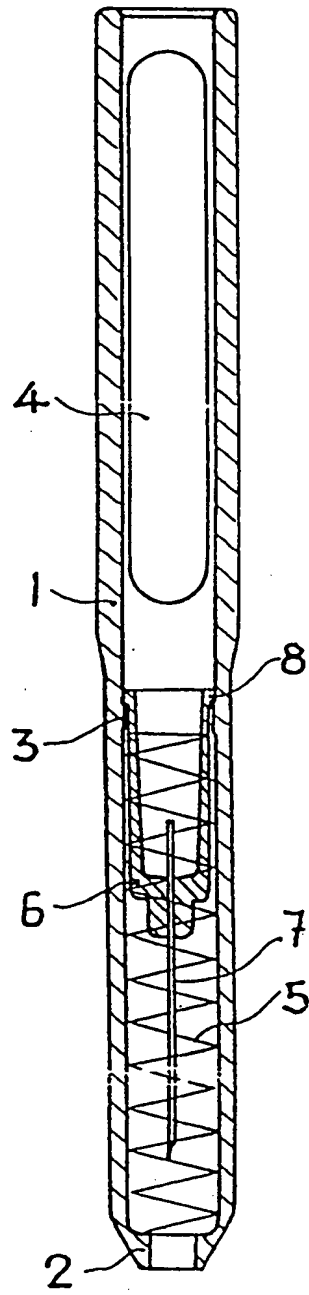


Fig. 1

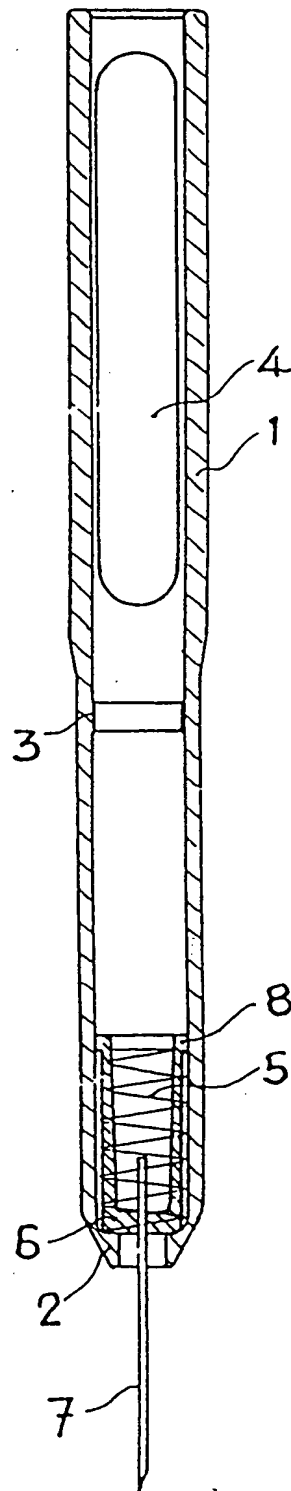


Fig. 2

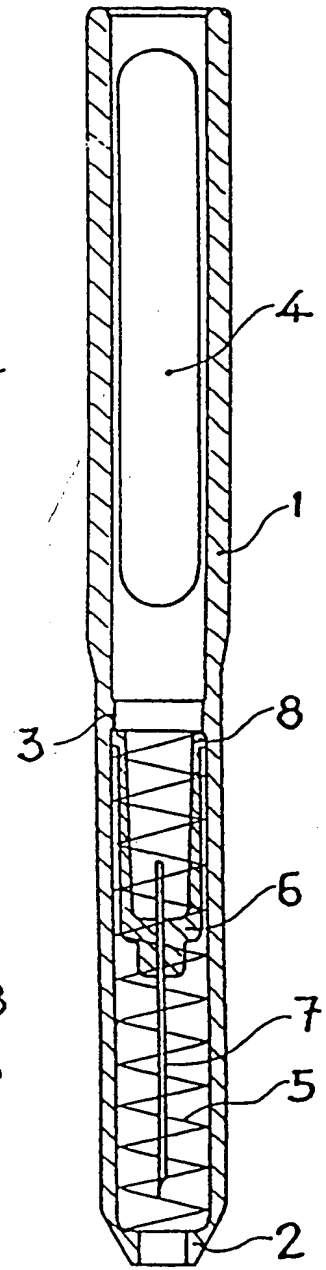


Fig. 3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 92 50 0067

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	US-A-3 306 290 (WELTMAN) * column 3, line 2 - line 5; figures *	1	A61M5/32
A	EP-A-0 317 518 (TAMBURINI) * column 2, line 21 - line 26; figures 1,2 *	1	
A	US-A-4 816 022 (PONCY) * abstract; figures *	1	
A	US-A-4 966 592 (BURNS ET AL) * abstract; figures *	1	
A	WO-A-8 904 678 (HABLEY MEDICAL TECHNOLOGY) * abstract; figures *	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			A61M
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 03 SEPTEMBER 1992	Examiner CLARKSON P.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

EPO FORM 1503 01.82 (P0601)